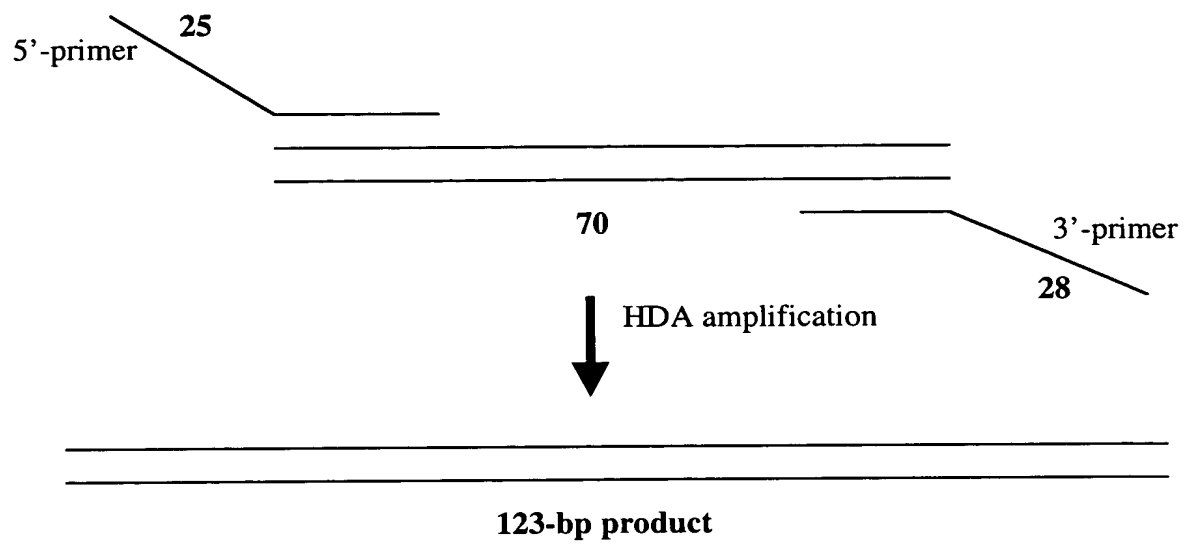
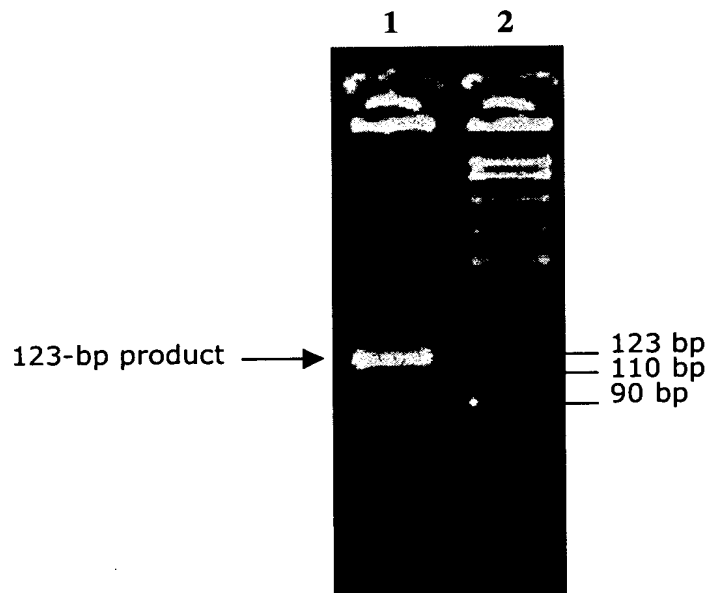


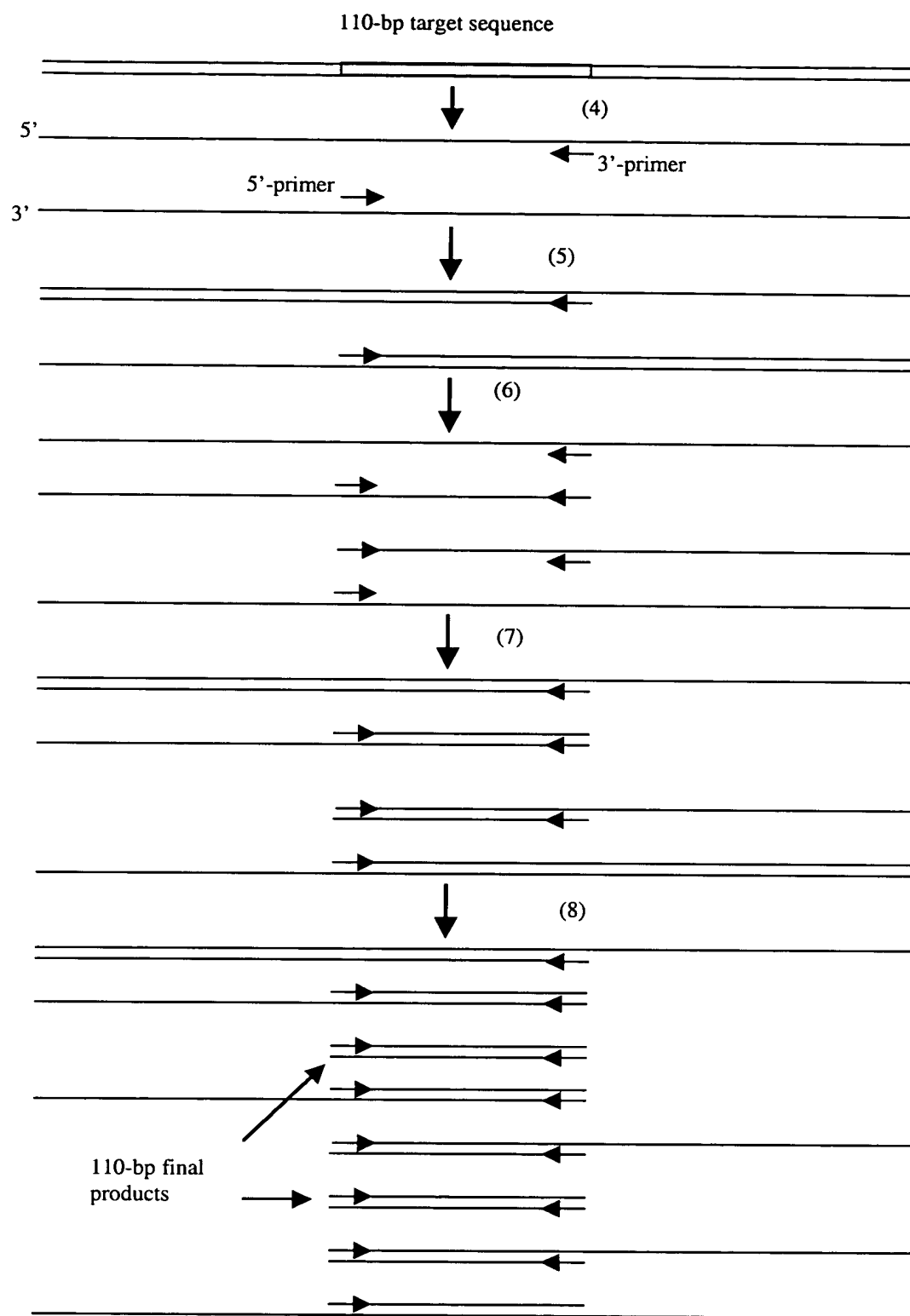
**Figure 1.**



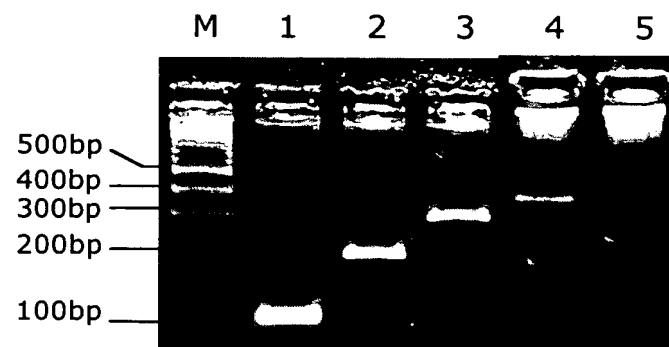
**Figure 2A**



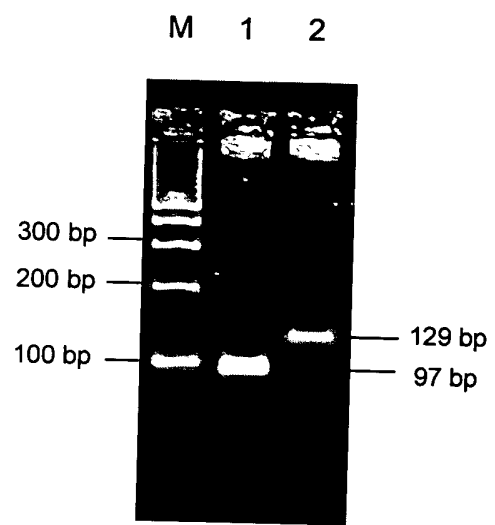
**Figure 2B.**



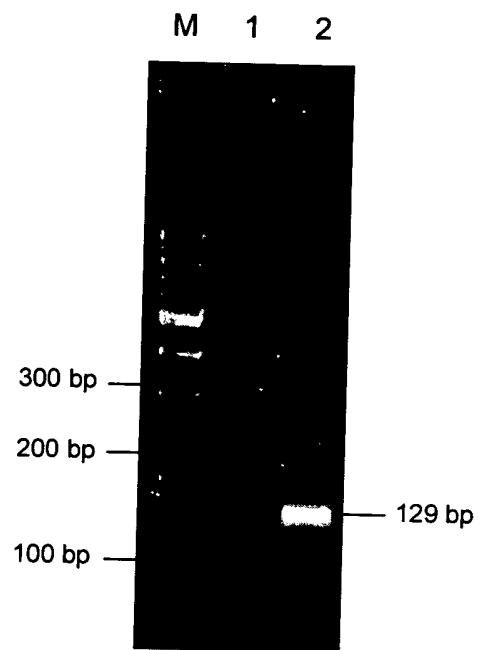
**Figure 3**



**Figure 4**



**A**

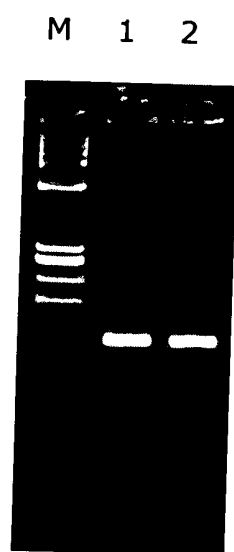


**B**

**Figure 5**



**Figure 6**



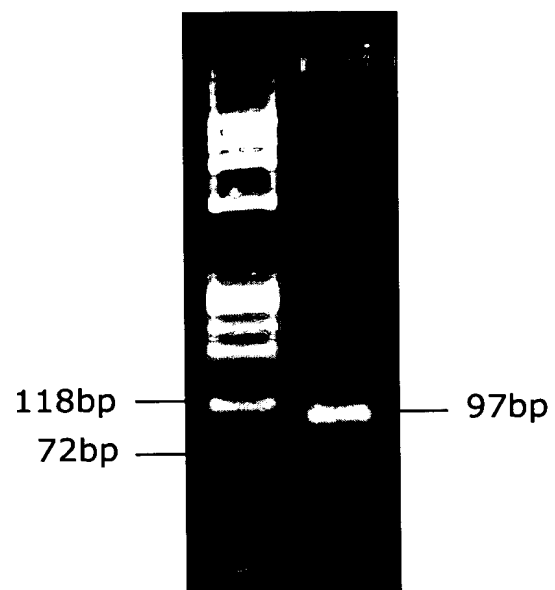
**Figure 7**

Genome Copies     $10^7$     $10^6$     $10^5$     $10^4$     $10^3$     $10^2$    10   0

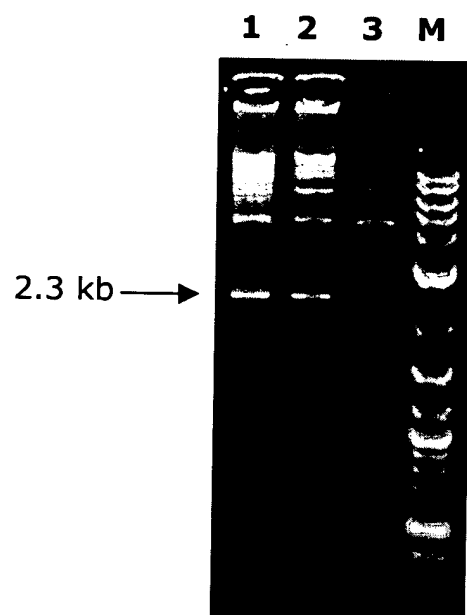


**Figure 8**

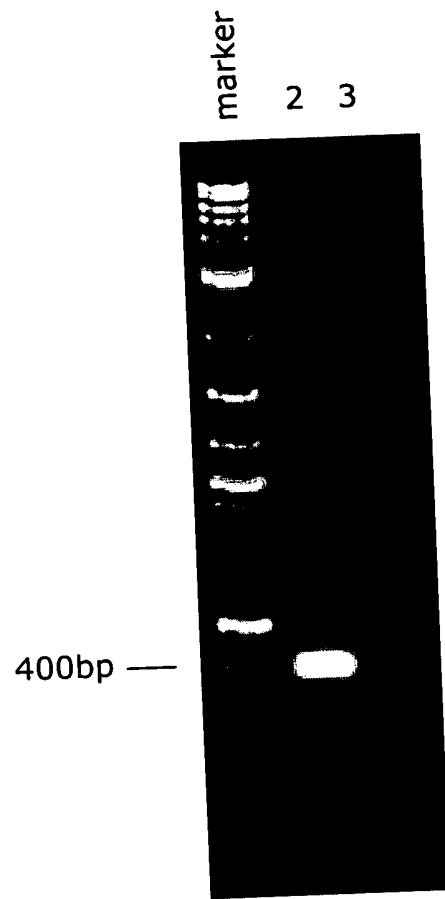




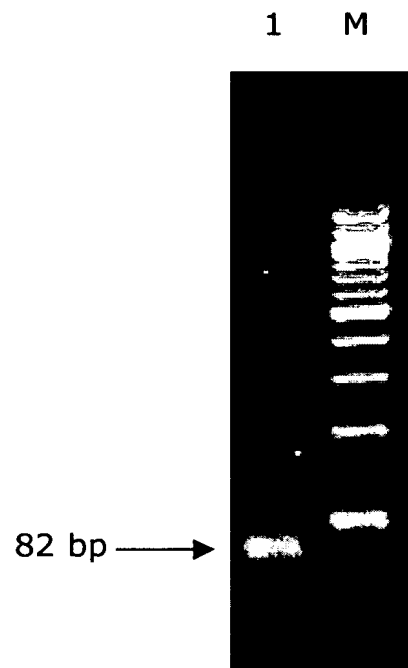
**Figure 9**



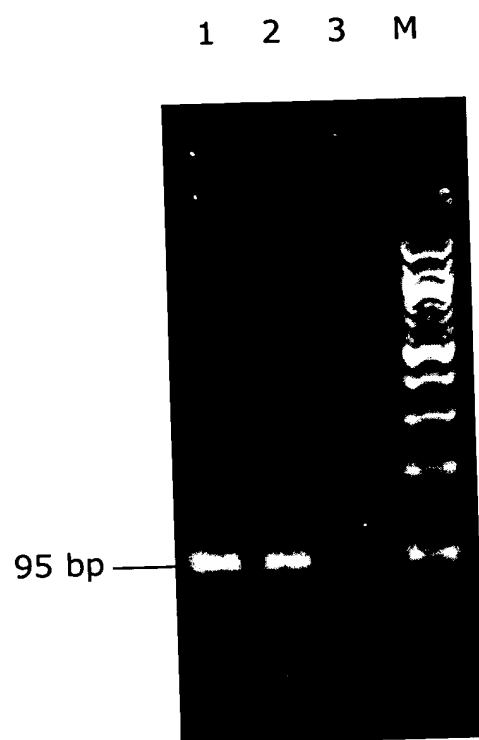
**Figure 10**



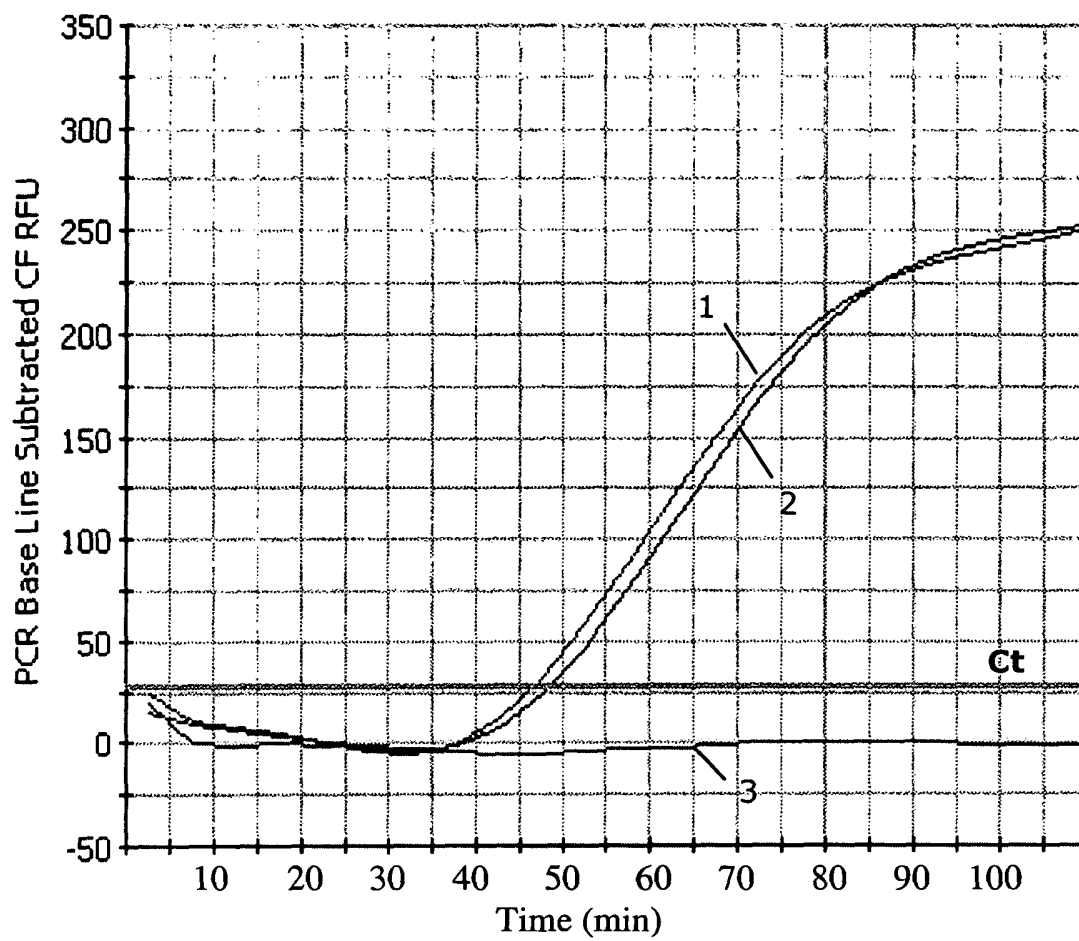
**Figure 11**



**Figure 12**



**Figure 13**



**Figure 14**

## FIGURE 15-1

TCGCGCGTTTCGGTGATGACGGTGAAAACCTCTGACACA  
TGCAGCTCCCGGAGACGGTCACAGCTTGTCTGTAAGCG  
GATGCCGGGAGCAGACAAGCCCGTCAGGGCGCGTCAGC  
GGGTGTTGGCGGGTGTCGGGGCTGGCTTAACCTATGCGG  
CATCAGAGCAGATTGTACTGAGAGTGCACCATATGCGGT  
GTGAAATACCGCACAGATGCGTAAGGAGAAAATACCGC  
ATCAGGCGCCATTCGCCATTCAGGCTGCGCAACTGTTGG  
GAAGGGCGATCGGTGCGGGCCTCTTCGCTATTACGCCA  
GCTGGCGAAAGGGGGGATGTGCTGCAAGGCGATTAAAGTT  
GGGTAACGCCAGGGTTTTCCAGTCACGACGTTGTAAAA  
CGACGGCCAGTGAATTGCATGCTCAGCTTGGCGTAATCA  
TGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCA  
CAATTCCACACAACATACGAGCCGGAAGCATAAAGTGTA  
AAGCCTGGGGTGCCCTAATGAGTGAGCTAACTCACATTAA  
TTGCGTTGCGCTCACTGCCCGCTTTCAGTCGGGAAACC  
TGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGCG  
GGGAGAGGCGGTTTGCGTATTGGGCGCTCTTCCGCTTC  
CTCGCTCACTGACTCGCTGCGCTCGGTCTTCGGCTGCG  
GCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGT  
TATCCACAGAATCAGGGGATAACGCAGGAAAGAACATG  
TGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAA  
GGCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCCCCC  
TGACGAGCATCACAAAATCGACGCTCAAGTCAGAGGT  
GGCGAAACCCGACAGGACTATAAAGATACCAGGCGTTT  
CCCCCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCCGACC  
CTGCCGCTTACCGGATACCTGTCCGCCTTTCTCCCTTCG  
GGAAGCGTGGCGCTTTCTCATAGCTCACGCTGTAGGTAT  
CTCAGTTCGGTG TAGGTCGTTTCGCTCCAAGCTGGGCTGT  
GTGCACGAACCCCCCGTT CAGCCCGACCGCTGCGCCTTA  
TCCGGTAACTATCGTCTTGAGTCCAACCCGGTAAGACAC  
GACTTATCGCCACTGGCAGCAGCCACTGGTAACAGGATT  
AGCAGAGCGAGGTATGTAGGCGGTGCTACAGAGTTCTT  
GAAGTGGTGGCCTAACTACGGCTACACTAGAAGGACAG  
TATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCG  
GAAAAAGAGTTGGTAGCTCTTGATCCGGCAAACAAACCA

## FIGURE 15-2

CCGCTGGTAGCGGTGGTTTTTTTGTGTTGCAAGCAGCAGA  
TTACGCGCAGAAAAAAGGATCTCAAGAAGATCCTTTGA  
TCTTTTCTACGGGGTCTGACGCTCAGTGGAACGAAAAC  
CACGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGA  
TCTTCACCTAGATCCTTTTAAATTAAAAATGAAGTTTTAA  
ATCAATCTAAAGTATATATGAGTAAACTTGGTCTGACAG  
TTACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGAT  
CTGTCTATTTTCGTTTCATCCATAGTTGCCTGACTCCCCGTC  
GTGTAGATAACTACGATACGGGAGGGCTTACCATCTGGC  
CCCAGTGCTGCAATGATACCGCGAGACCCACGCTCACC  
GGCTCCAGATTTATCAGCAATAAACCAGCCAGCCGGAAG  
GGCCGAGCGCAGAAAGTGGTCCTGCAACTTTATCCGCCTC  
CATCCAGTCTATTAATTGTTGCCGGGAAGCTAGAGTAAG  
TAGTTCGCCAGTTAATAGTTTGCGCAACGTTGTTGCCAT  
TGCTACAGGCATCGTGGTGTACGCTCGTCGTTTTGGTAT  
GGCTTCATTCAGCTCCGGTTCCCAACGATCAAGGCGAGT  
TACATGATCCCCCATGTTGTGCAAAAAAGCGGTTAGCTC  
CTTCGGTCCTCCGATCGTTGTGAGAAGTAAGTTGGCCGC  
AGTGTTATCACTCATGGTTATGGCAGCACTGCATAATTC  
TCTTACTGTCATGCCATCCGTAAGATGCTTTTCTGTGACT  
GGTGAGTACTCAACCAAGTCATTCTGAGAATAGTGTATG  
CGGCGACCGAGTTGCTCTTGCCCGGCGTCAATACGGGA  
TAATACCGCGCCACATAGCAGAACTTTAAAAGTGCTCAT  
CATTGGAAAACGTTCTTCGGGGCGAAAACTCTCAAGGAT  
CTTACCGCTGTTGAGATCCAGTTCGATGTAACCCACTCG  
TGCACCCAACTGATCTTCAGCATCTTTTACTTTACCAGC  
GTTTCTGGGTGAGCAAAAACAGGAAGGCAAAATGCCGC  
AAAAAAGGGAATAAGGGCGACACGGAAATGTTGAATAC  
TCATACTCTTCCTTTTTCAATATTATTGAAGCATTTATCA  
GGGTTATTGTCTCATGAGCGGATACATATTTGAATGTAT  
TTAGAAAAATAAACAAATAGGGGTTCCGCGCACATTTCC  
CCGAAAAGTGCCACCTGACGTCTAAGAAACCATTATTAT



# **FIGURE 15-3**

CATGACATTAACTATAAAAATAGGCGTATCACGAGGCC  
CTTTCGTC

## FIGURE 16

ATGAGTAGGCGTGAAGTAAAAAATCAAACAAATATTTCT  
AGAATTGAAGGAATTAACCAAATGATGCTTATGTTGCT  
TATGTATGTGTACAATGTAACAATTTGAATATGATAAATA  
TTGGACAAAAATTATTAGATCCAAGAGAGGCTTATGAAA  
CACAAGAATGGAAATGTGAAAGATGTGGATTTTTACATA  
GTAAAAATAATTCATTGTCTTATTCAAACCTGGCCAGAAG  
AAAGTAAAAAGAAAGGTTCTATTCCTGTACAAAGATTTT  
GGCAAGCTTTTTTTAGAGTATATACAGAGAATAAAGAAG  
CATATTGGAAACAATGTAATTGTTGTGGAAAAATATTAC  
CATTTTCCGCATTTAGCAAGCATATTGGTTTTGGCCCTCT  
TGAAAGACAAATGGAATGTAGAGCTTGTAAGGGAGTGA  
TAAATGCATTTTTAAATCCAGAAAGAACAGAAGATCAAT  
TAAGAGAGTCAAATGTTAGGAGACGTGTTGCCGATTTGT  
TTGTTAAAAAAGAAAATAAATCTAAAGATGATGGATTTAT  
TAAAGATTTATTTAAACGTTTTGGTTCAAAGTGCTTTAAA  
ACAAAGAAATATCTAAATATTCATGATAGAAATTCTTGG  
GCTATAGATCATATTTTACCATCAAATATCTTTATCCTC  
TTACAAAAGAAAATGCTGCACTATTATCTGTAGAAGCTA  
ATTCCAATAAAAGAGATCGTTGGCCTTCAGAATTTTATAC  
AAATAATGAATTAATAGAACTTGCTACAATAACAGGAGC  
TGATTTACAATTATTATCAAATAAAACACCTATTATAAAT  
CCAAATCTTACTGATGAGGATATAAATGCAGGTATTGAG  
AATTATTTGTCTGTTTCGTGAAAATTCAAACCTTGAGAAGC  
GAGTAGCTGAAATAAAAAAATCATAATAGACTATCAAT  
TAACGGATAAATTATCGAAAAGCAACAAGAATTTACTTG  
GTTTATCTTAA